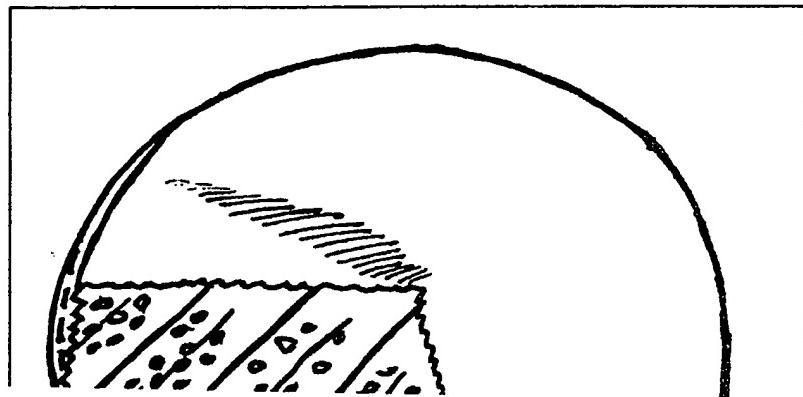


(12) UK Patent Application (19) GB (11) 2 061 709 A

(21) Application No 7937553  
(22) Date of filing 30 Oct 1979  
(43) Application published  
20 May 1981  
(51) INT CL<sup>3</sup>  
A47K 7/02  
A47L 1/15 13/16 23/04  
25/08 // 13/18  
(52) Domestic classification  
A4F 35A11 35A1 35A8  
35AX 35B 35C 35E 35F3B  
35F6  
A4V 8  
(56) Documents cited  
GB 1480146  
GB 1358171  
GB 451536  
GB 415708  
GB 377747  
GB 376079  
GB 267439  
US 3533126 A  
(58) Field of search  
A3B  
A4F  
A4V  
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(54) Pad

(57) A pad comprises a core (1) of flexible, liquid-sorbent material and a covering (2) of stretch material in tension on said liquid-sorbent material. The pad may be used for cleaning the skin e.g. removing make-up, or it may be inserted into footwear to relieve pressure on tender parts of the feet. The pad may also be used for household cleaning and/or polishing. The core may be a plastics foam and the covering may be made from a two-way stretch nylon material. The pad may be glove-shaped. A capsule containing disinfectant may be located within the pad; alternatively, the latter may be impregnated therewith.



ERRATUM

SPECIFICATION NO 2061709A

Front page, Heading (74) Agents *delete* whole lines *insert* (74) Agents Graham Jones & Company,  
48 Mereworth Drive, Shooters Hill, London, SE18 3EE.

THE PATENT OFFICE  
7 August 1981

Bas 84236/13

FIGURE 2

SEARCHED

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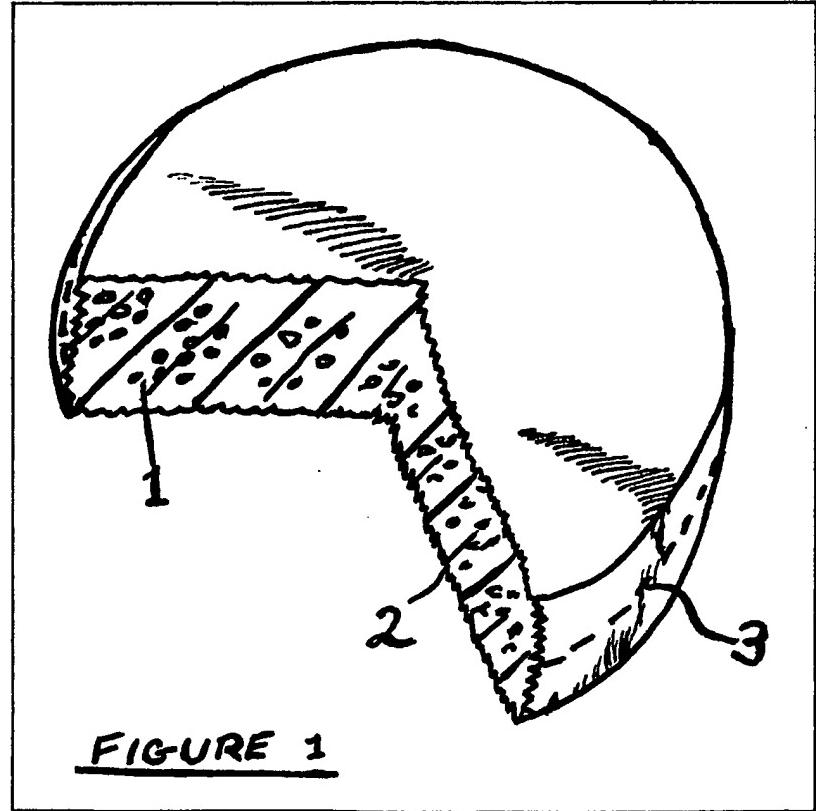


FIGURE 1

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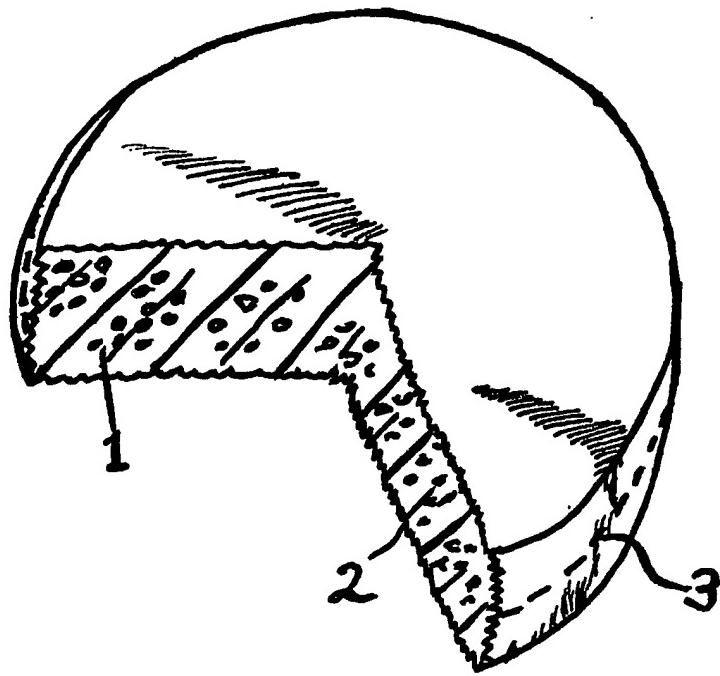


FIGURE 1

2/2

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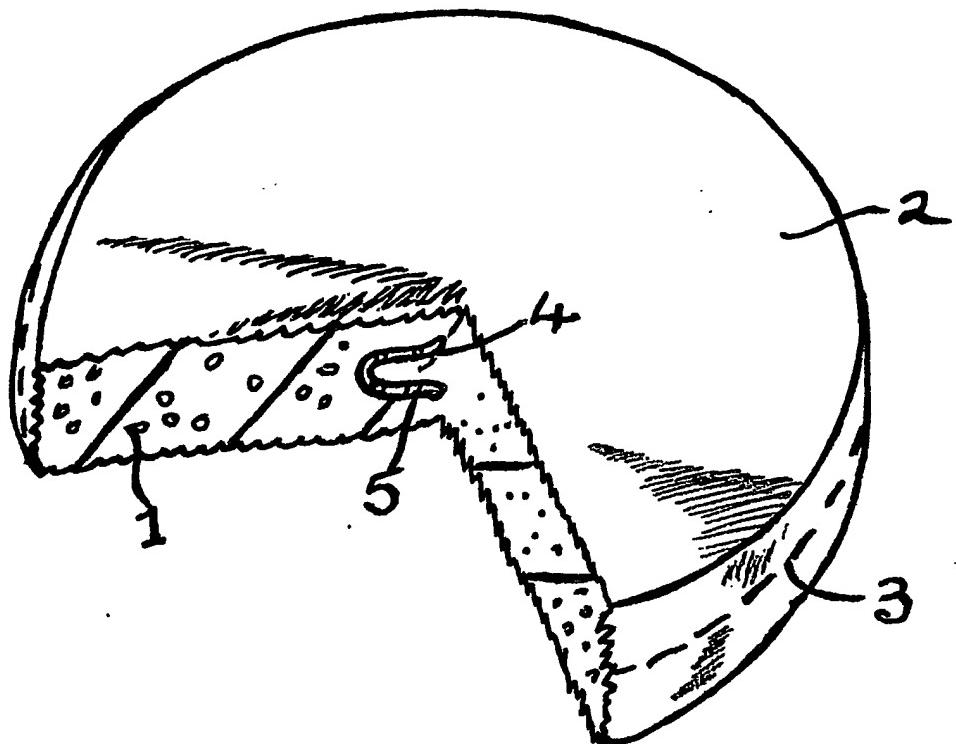


FIGURE 2

**SPECIFICATION****A pad and a method of use thereof**

- 5 This invention relates to a cleaning pad for application to the human body, particularly for cleaning cosmetics from the skin, and to a method of use of the pad. The pad can also be used for industrial, domestic and veterinary cleaning.
- 10 For cleaning cosmetics from the human skin it is conventional to use cotton wool or cloth dipped in a lotion, or lathered with soap and water. It is also known to use cloth pre-impregnated with a lotion. All of these known ways are inefficient, particularly
- 15 with certain cosmetics. Moreover, the lotion is frequently irritant to the skin. Another disadvantage is that the cotton wool or cloth rapidly becomes so dirty as not to be reusable, and so has to be thrown away.
- 20 For cleaning dirt from inanimate surfaces in the kitchen or bathroom it is conventional to use a sponge or foam block, or a cloth dipped in soapy water. It is also known to use cloth pre-impregnated with a disinfectant or soap. All of these known ways
- 25 are inefficient with certain kinds of dirt. Another disadvantage is that the block or cloth often rapidly becomes so dirty as not to be reusable, and so has to be thrown away.

According to one aspect of the present invention there is provided a cleaning pad comprising flexible, liquid-sorbent material and a covering of stretch material in tension on said liquid-sorbent material.

According to another aspect of the present invention there is provided a method of cleaning comprising providing a pad comprised of flexible, liquid-sorbent material and a covering of stretch material in tension on said liquid-sorbent material, applying water to said pad to cause said liquid-sorbent material to absorb said water, and wiping said pad over a portion of a surface to be cleaned to remove a substance therefrom.

The present pad can be used to clean efficiently the human skin, especially to clean cosmetics from the skin. Moreover, the presence of the liquid-sorbent material in the pad makes the pad self-cleaning, in that the liquid expelled from this material when the pad is squeezed washes the substance from the covering. Thus the pad can be reused many times. Another advantage is that no additional lotion is required.

The pad can also be used to clean efficiently domestic and veterinary surfaces, especially to clean dirty domestic surfaces. Moreover, the presence of the liquid-sorbent material in the pad makes the pad self-cleaning, in that the liquid expelled from this material when the pad is squeezed washes the substance from the covering. Thus the pad can be reused many times.

The invention will be described now by way of example only with particular reference to the accompanying drawings. In the drawings:

Figure 1 is a perspective view of a pad for cleaning

the human body, and

Figure 2 is a perspective view of a pad for domestic cleaning.

Referring to Figure 1 a pad comprises a small disc 1 of flexible, liquid-sorbent material, in the example shown as a sponge or a foam material, and a covering 2 of stretch material, in the example shown a two-way stretch nylon or nylon-containing material of a very soft texture, in tension on the disc 1. In manufacture of the pad two circular pieces of stretch material are stitched together semi-circumferentially with a machine stitch, the disc 1 is inserted between

75 the two pieces and then the stitching is completed by machine and hand to form a full circumferential seam 3.

As the material of the disc 1, I have found "T 180" a polyether foam with a density of 20 kg./m.<sup>3</sup> and

80 marketed by Koepf A.G., of Oestrich-Winkel, Federal Republic of Germany, to be suitable.

As the material for the covering 2, I have found "J 1396" a standard high crimp "Celon" (Registered Trade Mark) which is electrostatic and marketed by

85 Knitcraft Hosiery Co. Ltd., of Nottingham, England, to be suitable. This combination of materials has been found to be particularly efficient in removing cosmetics from human skin.

The pad can be used wet for certain operations of

90 cleaning the human body, and has particularly been used by me for the removal of cosmetics, such as eye make-up. For such removal, the pad was not pre-impregnated with any other substance, nor did it require added creams or lotions, but it was simply

95 dipped in water and then used to remove the cosmetics. To clean the pad it was occasionally washed in soap.

It is believed that the above combination of materials was successful in removing cosmetics because

100 "T 180" was a soft foam and thus able closely to follow the contours of the skin, while "J 1396" was electrostatic and had a low coefficient of friction and thus tended to attract dirt from the skin and did not chafe the skin.

105 Another use for the pad shown is for insertion into footwear to relieve the pressure on tender parts of the feet. It has the advantages of being washable, of retaining its shape and of not disintegrating readily.

It is believed that it also has uses in medical fields

110 for cleaning human beings.

For cleaning the body the pad can be made in the form of a glove.

The pad shown in Figure 2 is similar to that of Figure 1 but inserted in the middle of the block 1 is a capsule 5 of water-soluble material and containing a mild disinfectant liquid 4. In manufacture of the pad two circular pieces of stretch material are stitched together semi-circumferentially with a machine stitch, the block 1 is inserted between the two pieces

120 and then the stitching is completed by machine and hand to form the full circumferential seam 3.

As the material of the block 1, I have found "KITTY" a coarse-pored, polyester foam with a density of 27 kg./m.<sup>3</sup> and marketed by Koepf A.G., of

Oestrich-Winkel, Federal Republic of Germany, to be suitable.

As the material for the covering 2, I have found "J1396" a standard high crimp "Celon" which is electrostatic and marketed by Knitcraft Hosiery Co. Ltd., of Nottingham, England, to be suitable.

The pad can be used wet for domestic cleaning operations, such as for cleaning kitchen and bathroom surfaces, for cleaning fibrous materials, for cleaning cars, for cleaning plastics, for cleaning silver, for cleaning paint with soap and for cleaning carpets.

The pad can also be used dry for polishing many articles, for example, furniture, shoes and windows.

15 To clean the pad it is occasionally washed in soap. It is believed that the above combination of material is successful in removing dirt from domestic surfaces because "KITTY" is a foam and thus able to follow the contours of the surfaces, while "J1396" is electrostatic and thus tends to attract dirt from the surfaces.

It is believed that it also has uses in veterinary fields for cleaning domestic animals.

Instead of providing the pad with the capsule 5 containing the liquid 4, the pad can be impregnated with a mild disinfectant substance or possibly with an aromatic substance.

If desired the pad can be made in the form of a glove for wearing by the cleaner.

### 30 CLAIMS

1. A cleaning pad comprising flexible, liquid-sorbent material and a covering of stretch material in tension on said liquid-sorbent material.

2. A pad according to claim 1, wherein said flexible, liquid-sorbent material is one of a sponge material and a foam material.

3. A pad according to claim 1 or claim 2, wherein said stretch material is a two-way stretch material.

4. A pad according to any preceding claim, 40 wherein said stretch material comprises nylon.

5. A pad according to any preceding claim, wherein said stretch material has a very soft texture.

6. A pad according to any preceding claim, wherein said covering is electrostatic.

45 7. A pad according to any preceding claim, including a water soluble means inserted in said flexible, liquid-sorbent material.

8. A pad according to any one of claims 1 to 6, wherein the flexible, liquid-sorbent material is a

50 polyether foam known as "T 180" and the covering material is a high crimp "Celon" known as "J1396".

9. A method of cleaning the human body comprising providing a pad comprised of flexible,

liquid-sorbent material and a covering of stretch 55 material in tension on said liquid-sorbent material, applying water to said pad to cause said liquid-sorbent material to absorb said water and wiping said pad over a portion of the human body to remove a substance therefrom.

60 10. A pad for application to the human body substantially as hereinbefore described with reference to the accompanying drawings.